

**WHAT IS CLAIMED IS:**

- 1           1. A method of facilitating compressed message
- 2           communication between a first communication entity and a
- 3           second communication entity, said method comprising the steps
- 4           of:
- 5           compressing, at said first communication entity, a
- 6           portion of a first communication message using a first
- 7           dictionary to produce a first compressed communication
- 8           message;
- 9           transmitting said first compressed communication message
- 10          to said second communication entity;
- 11          receiving said first compressed communication message
- 12          at said second communication entity;
- 13          decompressing, at said second communication entity, said
- 14          first compressed communication message using a second
- 15          dictionary to reproduce said first communication message; and
- 16          adding said portion of said first communication message
- 17          to said second dictionary.

1           2. The method of claim 1, said method further  
2     comprising the steps of:  
3           compressing, at said second communication entity, a  
4     portion of a second communication message using said second  
5     dictionary to produce a second compressed communication  
6     message;  
7           transmitting said second compressed communication  
8     message to said first communication entity;  
9           receiving said second compressed communication message  
10    at said first communication entity;  
11          adding said portion of said first communication message  
12    to said first dictionary; and  
13          decompressing, at said first communication entity, said  
14    second compressed communication message using said first  
15    dictionary to reproduce said second communication message.

1           3. The method of claim 2, said method further  
2     comprising the step of:  
3           adding said portion of said second communication message  
4     to said first dictionary.

1           4. The method of claim 2, wherein said step of  
2     transmitting said first compressed communication message and  
3     said step of transmitting said second compressed  
4     communication message comprises transmitting over a wireless  
5     interface.

1           5. The method of claim 3, said method further  
2     comprising the steps of:

3           compressing, at said first communication entity, a  
4     portion of a third communication message using said first  
5     dictionary to produce a third compressed communication  
6     message;

7           transmitting said third compressed communication message  
8     to said second communication entity;

9           receiving said third compressed communication message  
10    at said second communication entity;

11          decompressing, at said second communication entity, said  
12    third compressed communication message using said second  
13    dictionary to reproduce said third communication message; and

14 adding said portion of said second communication message  
15 to said second dictionary.

1 6. The method of claim 1, said method further  
2 comprising the steps of:

3 compressing, at said second communication entity, a  
4 portion of a second communication message using a third  
5 dictionary to produce a second compressed communication  
6 message;

7 transmitting said second compressed communication  
8 message to said first communication entity;

9 adding said portion of said second communication message  
10 to said third dictionary;

11 receiving said second compressed communication message  
12 at said first communication entity;

13 decompressing, at said first communication entity, said  
14 second compressed communication message using a fourth  
15 dictionary to reproduce said second communication message;  
16 and

- 17           adding said portion of said second communication message  
18   to said fourth dictionary.

FILED

1           7. A communications device for facilitating compressed  
2 message communication, said communications device comprising:  
3           a receiver unit;  
4           a transmitter unit;  
5           a processor; and  
6           memory having stored therein at least one dictionary and  
7 program software having instructions which, when executed by  
8 the processor, causes the communications device to:  
9           receive, by said receiver unit, a first  
10 communication message from another communications device,  
11 said communication message having a compressed portion  
12 therein;  
13           decompress, using said at least one dictionary,  
14 said compressed portion of said first communication message;  
15 and  
16           add said compressed portion to said at least one  
17 dictionary.

1           8.    The communications device of claim 7, wherein the  
2    program software further includes instructions which, when  
3    executed by the processor, causes the communications device  
4    to:

5                compress, using said at least one dictionary, a  
6    portion of a second communication message to obtain a  
7    compressed portion thereof;

8                transmit, by said transmitter unit, said second  
9    communication message having the compressed portion to said  
10   another communications device; and

11               add, to said at least one dictionary, the  
12   compressed portion of said second communication message upon  
13   reception, by said receiver unit, of a third communication  
14   message by said another communications device.

1           9.    The communications device of claim 7, wherein said  
2    communications device comprises a mobile terminal.

1           10.   The communications device of claim 7, wherein said  
2    communications device comprises a base station.

Patent Application  
Docket #34645-00523USPT

FILED - 2011-11-10



1           11. A communications device, comprising:  
2           a receiver unit;  
3           a transmitter unit;  
4           a processor; and  
5           memory having stored therein at least one dictionary and  
6           program software having instructions which, when executed by  
7           the processor, causes the communications device to:  
8                 compress, using said at least one dictionary, a  
9                 portion of a communication message to obtain a compressed  
10                portion thereof;  
11               transmit, by said transmitter unit, said  
12               communication message having the compressed portion to  
13               another communications device; and  
14               add, to said at least one dictionary, the  
15               compressed portion of said communication message upon  
16               reception, by said receiver unit, of a second communication  
17               message by said another communications device.

1           12. The communications device of claim 11, wherein said  
2           at least one dictionary comprises a first dictionary for  
3           storing said compressed portion and a second dictionary for  
4           storing at least one compressed portion of messages received  
5           by said receiver unit.

1           13. The communications device of claim 11, wherein said  
2           communications device comprises a mobile terminal.

1           14. The communications device of claim 11, wherein said  
2           communications device comprises a base station.

1           15. The communications device of claim 11, wherein said  
2           another communications device comprises a mobile terminal.

1           16. The communications device of claim 11, wherein said  
2           another communications device comprises a base station.

1           17. A communication system for facilitating compressed  
2 message communication, said communication system comprising:  
3           a first communication entity for sending a first  
4 communication message, said first communication entity  
5 comprising:  
6           a first dictionary;  
7           a first compressor in communication with said first  
8 dictionary, said first compressor using said first  
9 dictionary to compress a portion of a first communication  
10 message to produce a first compressed communication message;  
11 and  
12           a first transmitting means in communication with  
13 said first compressor, said first transmitting means  
14 transmitting said first compressed communication message; and  
15           a second communication entity, in communication with  
16 said first communication entity, for receiving said first  
17 compressed communication message, said second communication  
18 entity comprising:  
19           a first receiving means for receiving said first  
20 compressed communication message;

21           a second dictionary;  
22           a first decompressor, in communication with said  
23 first receiving means and said second dictionary, said first  
24 decompressor decompressing, said first compressed  
25 communication message using said second dictionary to  
26 reproduce said first communication message; and  
27           a first updating means, in communication with said  
28 decompressor and said second dictionary, said first updating  
29 means updating said portion of said first communication  
30 message to said second dictionary.

1           18. The communication system of claim 17, said second  
2 communication entity further comprising:  
3           a second compressor, in communication with said second  
4 dictionary, said second compressor compressing a portion of  
5 a second communication message using said second dictionary  
6 to produce a second compressed communication message; and  
7           a second transmitting means, in communication with said  
8 second compressor, said second transmitting means

9 transmitting said second compressed communication message to  
10 said first communication entity.

1 19. The communication system of claim 18, said first  
2 communication entity further comprising:

3 a second receiving means for receiving said second  
4 compressed communication message;

5 a second decompressor, in communication with said second  
6 receiving means and said first dictionary, said second  
7 decompressor decompressing said second compressed  
8 communication message using said first dictionary to  
9 reproduce said second communication message; and

10 a second updating means, in communication with said  
11 decompressor and said first dictionary, said second updating  
12 means updating a first one of said portion of said first  
13 communication message and said portion of said second  
14 communication message to said first dictionary.